Mounting Instructions click-on

Arena 600U-L | Atrium U-L

Komproment

wienerberger

The mounting instructions describe the procedure and guidelines for optimal planning and implementation of façades with Arena 600U-L and Atrium U-L click-on cladding tiles. Contact us if there are any questions as you work.

Always download the newest version

Check the newest version and the current version of the mounting instructions before you start working.

It can be downloaded from komproment.com

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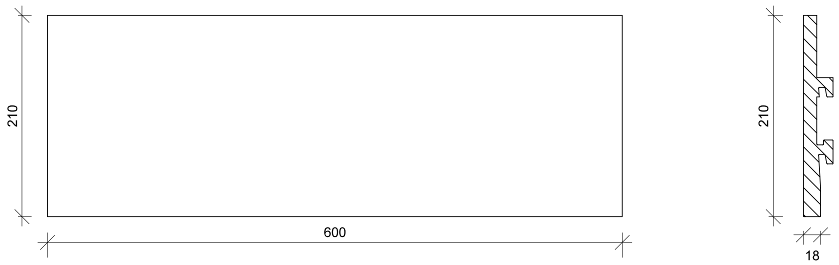
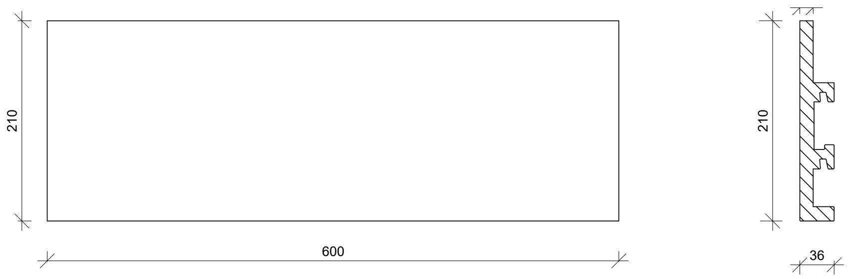
Data sheet Arena 600L



Technical Data

Type	Arena 600L
Colours	komproment.com
Surface	Rough
Dimensions	L x B: 210 mm x 600 mm
Material thickness	14-18 mm
Batten distance	175-195 mm
Recommended batten distance	195 mm
Requirements/m²	8.55-9.53 per tile
Requirement/m² with the recommended batten distance	8.55 tiles
Weight/tile	4.15 kg
Weight/m²	35.48-39.55 kg
Tolerance	+/- 1.5-2 %
Water absorption	10 %
Quantity per pallet	256 tiles
Bundled	No
Mounting	Attach with 2 mounting clips, class A2
Fire class	A1, DS/EN 1304:2013
Frost resistance Standard	DS/EN 1304:2013 and DS/EN 539-2:2013
Active soluble salt content	DS/EN 771-2:2011+A1:2015

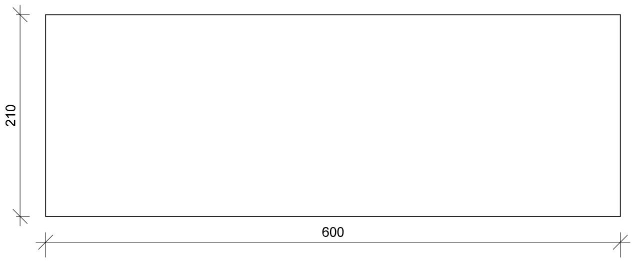
Data sheet Arena 600U

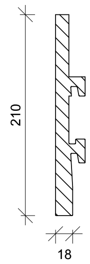


Technical Data

Type	Arena 600U
Colours	komproment.com
Surface	Rough
Dimensions	L x B 210 mm x 600 mm
Material thickness	14-18 mm
Batten distance	175-195 mm
Recommended batten distance	195 mm
Requirements/m²	8.55-9.53 tiles
Requirement/m² with the recommended batten distance	8.55 tiles
Weight/tile	4.9 kg
Weight/m²	41.90- 46.70 kg
Tolerance	+/- 1.5-2 %
Water absorption	10 %
Quantity per pallet	256 tiles
Bundled	No
Mounting	Attach with 2 mounting clips, class A2
Fire class	A1, DS/EN 1304:2013
Frost resistance Standard	DS/EN 1304:2013 and DS/EN 539-2:2013
Active soluble salt content	DS/EN 771-2:2011+A1:2015

Data sheet Atrium L

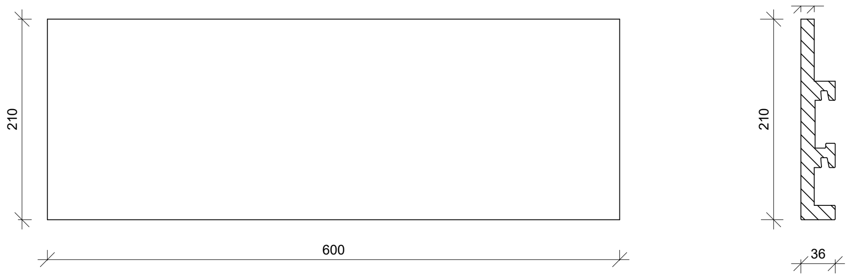




Technical Data

Type	Atrium L
Colours	kompromment.com
Surface	Brushed
Dimensions	L x B: 210 mm x 600 mm
Material thickness	14-18 mm
Batten distance	175-195
Recommended batten distance	195 mm
Requirements/m²	8.55-9.53 tiles
Requirement/m² with the recommended batten distance	8.55 tiles
Weight/tile	4.15 kg
Weight/m²	35.48-39.55 kg
Weight/m² with the recommended batten distance	35.48 kg
Tolerance	+/- 1.5-2 %
Water absorption	10 %
Quantity per pallet	256 tiles
Bundled	No
Mounting	Attach with 2 mounting clips, class A2
Fire class	A1, DS/EN 1304:2013
Frost resistance Standard	DS/EN 1304:2013 and DS/EN 539-2:2013
Active soluble salt content	DS/EN 771-2:2011+A1:2015

Data sheet Atrium U



Technical Data

Type	Atrium U
Colours	komproment.com
Surface	Brushed
Dimensions	L x B: 210 mm x 600 mm
Material thickness	14-18 mm
Batten distance	175-195 mm
Recommended batten distance	195 mm
Requirements/m²	8.55-9.53 tiles
Requirement/m² with the recommended batten distance	8.55 tiles
Weight/tile	4.9 kg
Weight/m²	41.90- 46.70 kg
Weight/m² with the recommended batten distance	41.90 kg
Tolerance	+/- 1.5-2 %
Water absorption	10 %
Quantity per pallet	256 tiles
Bundled	No
Mounting	Attach with 2 mounting clips, class A2
Fire class	A1, DS/EN 1304:2013
Frost resistance Standard	DS/EN 1304:2013 and DS/EN 539-2:2013
Active soluble salt content	DS/EN 771-2:2011+A1:2015

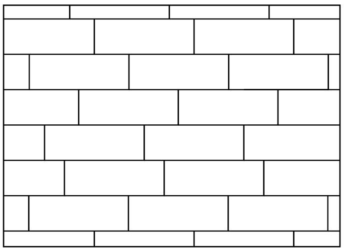
Colours and surfaces

Tiles are made from specially selected types of clay and fired at up to 1,200 degrees, which gives them rustic surfaces and an attractive texture. Slight colour variations are normal, and are permitted within Standard EN-1304 requirements. To achieve a natural play of colour, it is advisable to select cladding tiles from at least 4 different pallets and mix them evenly while mounting them. All colours can be downloaded as textures from the website.

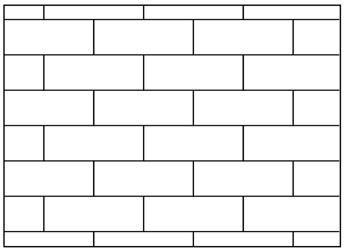
See more at komproment.com

Bonding patterns

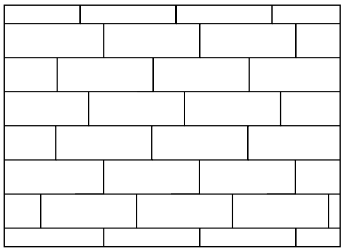
Our recommendation: Fitting the tiles at random (in a wild bond) is the simplest and fastest way to mount them. It also reduces waste and cut tiles. All joints must have a minimum distance of 80 mm sideways.
Dimensional variation is allowed in coarse ceramic products according to EN1304. (See the data sheets.)



Wild bond (tiles mounted randomly)



Half bond

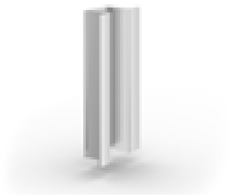


Quarter bond

See more at komproment.com


Atrium L Red

System components

1

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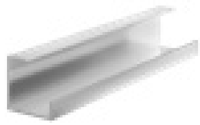
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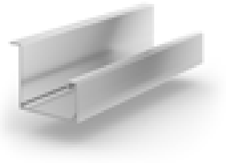
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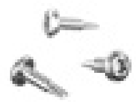
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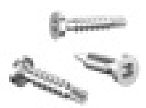
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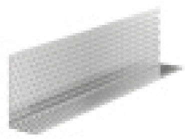
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	Item number	Material description	Packaging	Qty per unit	Requirement per m²*	Kg/ piece
1	53-1-255	25 mm spacer	Pallet	204	1.67	0.567
2	53-2-1623	TU and TL start batten, 39 mm	Pallet	140	1	0.33
3	53-2-183	TU and TL batten, 66 mm	Pallet	140	5.13-5.71	0.779
4	53-2-180	Assembly screw - 4.8x19 mm with drill point, A2	Carton	500	Depends in batten distance and distance between spacers	0.003
5	53-2-1732	Mounting screw for aluminium - 4.8x28 mm with drill point, A2	Carton	500	43-50	0.004
6	53-1-34	Mounting clip, 25x1.25 mm, A2	Carton	200	18-20	0.04
Optional:						
7	53-1-30	Mouse stopper, 25x50 mm				
8	33-5	Komproment installation adhesive				

*) At the recommended batten distance of 195 mm

Planning & underlying factors

Movements in façade materials

To allow for the requirements of material expansion in the construction, all battens in aluminium must always be installed at a distance of 3-5 mm. For wooden battens a distance of 3 mm is recommended.

Ventilation and draining

The free clearance between the batten and the wall construction, such as façade membranes and heat insulation, must always be at least 25 mm, and continue unbroken for the entire height of the façade. The thickness of the spacer ensures sufficient draining and ventilation, and is crucial, or the product warranty will not apply. If there are constructional obstructions of the free vertical cross section, the thickness of the spacers must be increased to ensure the necessary good flow of air.

Ventilation and passage of air

There must be sufficient ventilation openings at the highest and lowest points of the façade, to ensure a continual flow of air and good ventilation in all seasons and under all weather conditions. Ventilation that functions efficiently prolongs the lifetime of the cladding tiles and results in healthier housing.

The free ventilation and airing section must meet the following requirements:

- At least 100 cm^2 per running metre
- Even distribution over the façade
- Allowance must be made for reduction of the section in connection with mouse stoppers, snow retention tubes etc.

Ideally, there should be ventilation over doors, over and under windows, and around interfaces with other materials.

Wind barrier/back wall

Cladding tiles are defined as an open rain shield with ventilation openings corresponding to 0.5-1.0 % of the area of each façade. The wind barrier must be fitted according to the supplier's instructions and the consultant's assessments. For further reference, see BYG-ERFA sheet (21)171127 (in Danish) with regard to wind barriers in non-organic plate materials in light, ventilated outer walls.

Fire protection

All types of buildings can be built with Komproment façade cladding, but it is important to choose the correct substructure. A wooden mounting system can be used on buildings with a maximum of 5.1 metres to the floor of the highest storey over ground level. For buildings between 5.1 and 22 metres from ground level to the floor of the highest storey, wooden mounting systems can be used, but the mounting battens must be impregnated with fire retardant (material class B-s1, d0). On buildings between 22 and 45 metres from ground level to the floor of the highest storey, fireproof material must be used (at least material class A2,s1,d0) for the whole of the substructure. Aluminium components which comply with fire class A can be used for this purpose.

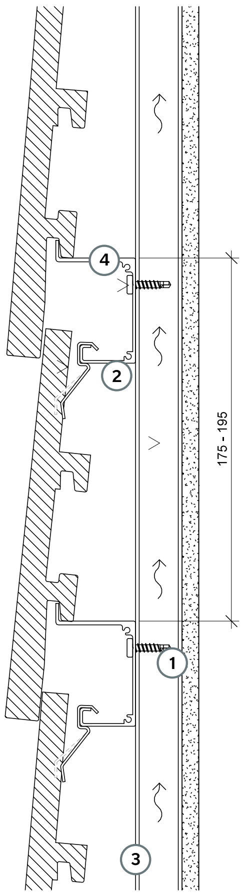
Statics

Dimensioning and the correct attachment of the chosen substructure (spacers and battens) must be analysed and carried out with regard to the specific project and object-related statics. This is the duty and responsibility of the architect and planner. If a complete façade system from Komproment is chosen, with cladding tiles, mounting system and back system, we will deliver the statics. For further details, see page 17 on back systems.

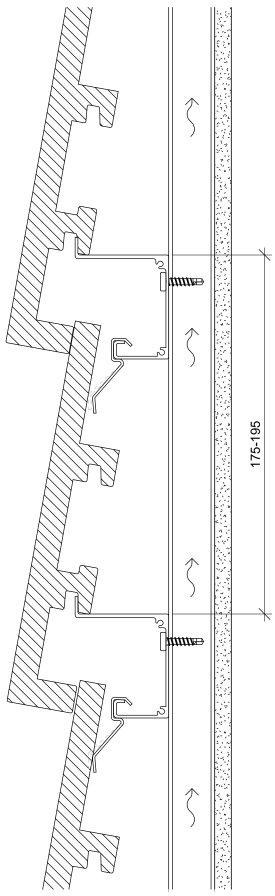
Planning principles

Arena 600U-L and Atrium U-L cladding tiles must be mounted exclusively on ventilated façade solutions. One method is to use vertical spacers in wood with horizontal battens in aluminium. Impregnated wood can be used. Alternatively, the tiles can be mounted on aluminium systems which are compliant with fire class A1. Each cladding tile is attached with 2 mounting clips. The principles for both systems and profiles are shown below.

Example with TL profile



Example with TU profile

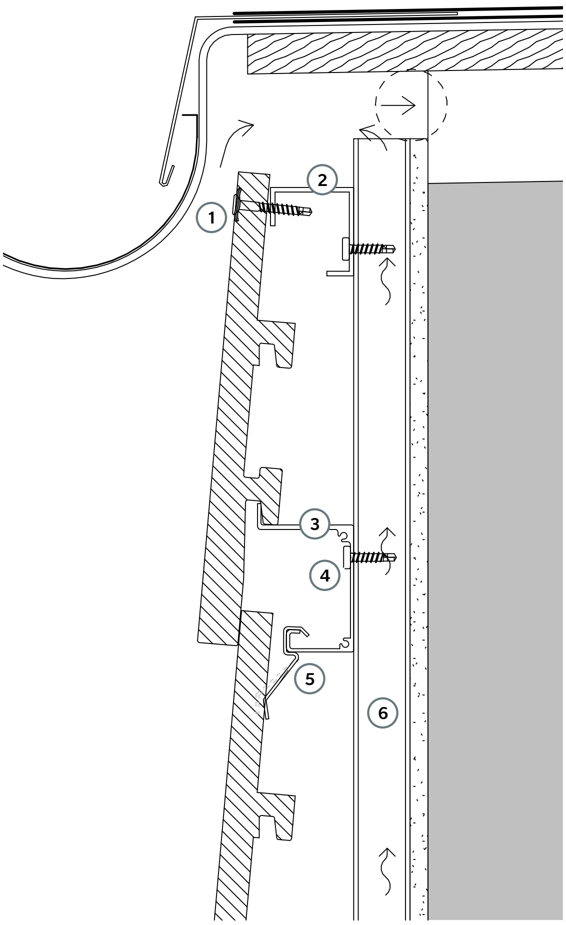


1.	Special self-drilling screw, A2 (for aluminium spacers)
2.	Mounting clip – 2 clips per tile. Must not be "over bent" when fitted.
3.	Vertical spacer 25 mm in wood or aluminium
4.	Horizontal aluminium batten

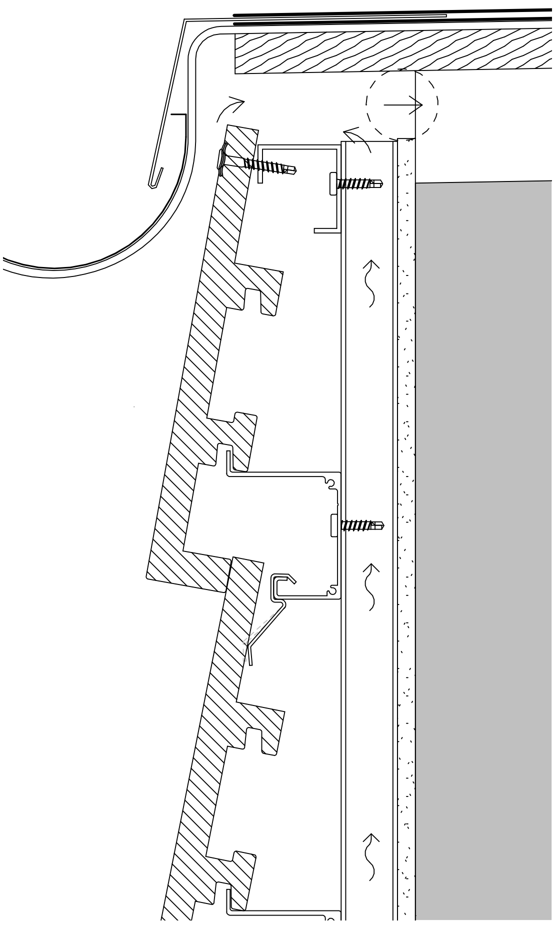
Atrium L Thunder

Façade construction details

TL profile



TU profile

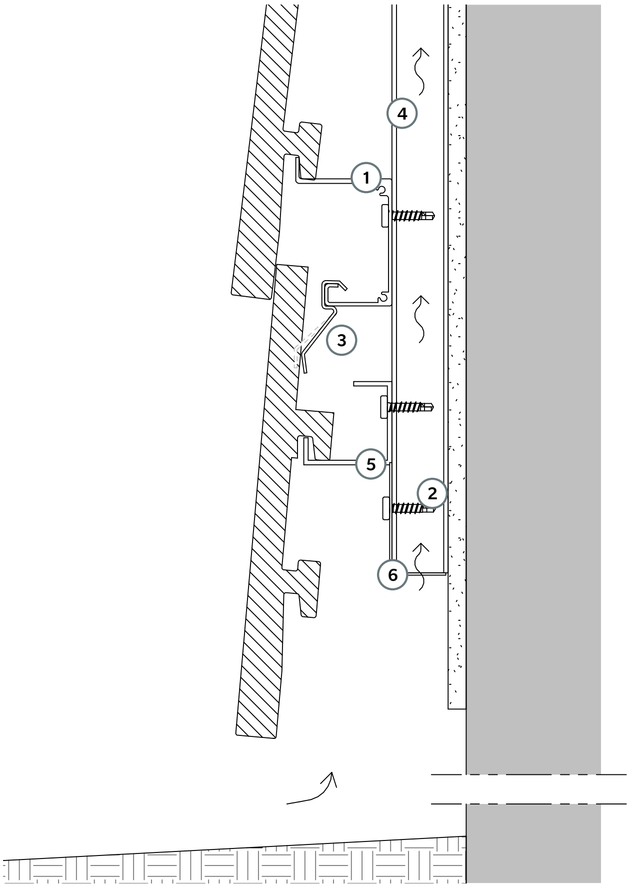


Always ensure that the construction is adequately ventilated.

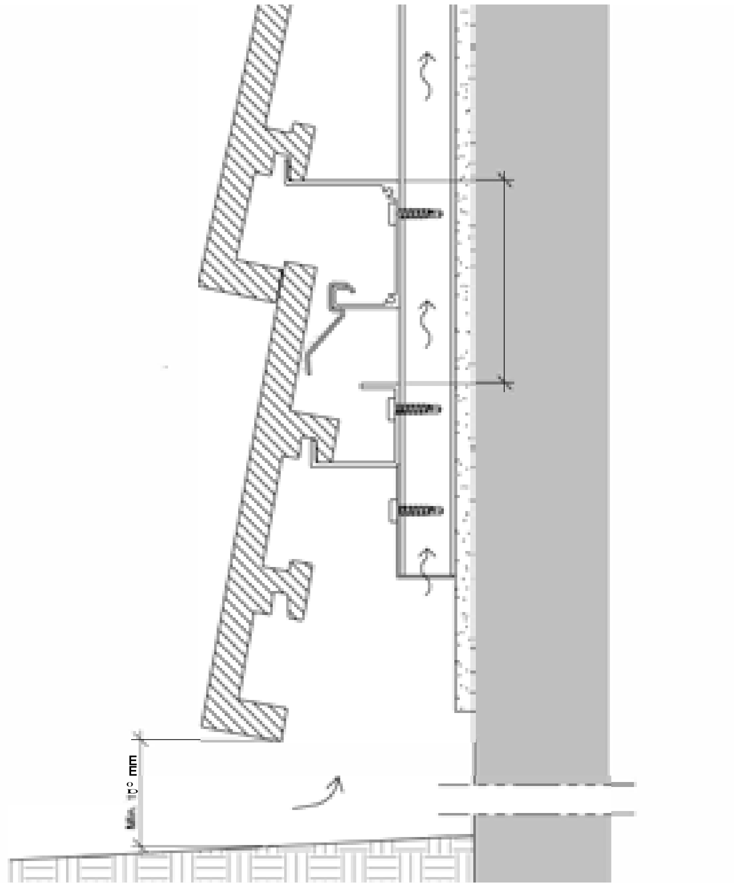
1.	Special self-drilling screw in stainless steel – A2. Drill one ø6 mm hole per tile for the screws.
2.	Horizontal special batten in aluminium. When finishing with specially fitted tile, the special batten must be blocked out, so the screen tile is correctly sloped.
3.	Horizontal batten in aluminium
4.	Special self-drilling screw in stainless steel (for aluminium spacers)
5.	Mounting clip, 2 clips per tile. Must not be “over bent” when fitted.
6.	Vertical spacer 25 mm in wood or aluminium

Grouping battens and measuring out the start batten

TL profile



TU profile



↗Detail of plinth above ground level

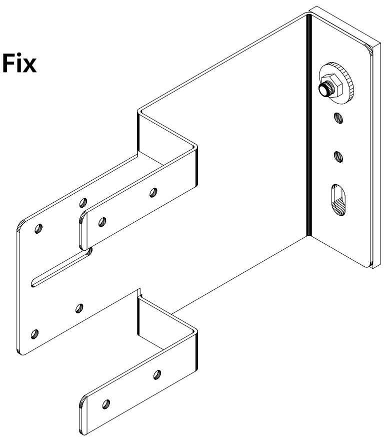
1.	Horizontal aluminium batten
2.	Special self-drilling screw in stainless steel – A2
3.	Mounting clip – 2 clips per tile. Must not be “over bent” when fitted
4.	Vertical spacer 25 mm in wood or aluminium
5.	Horizontal special batten in aluminium
6.	Mouse stopper (ventilated) 1.0 mm perforated aluminium – fitted on spacers


Atrium L Melange

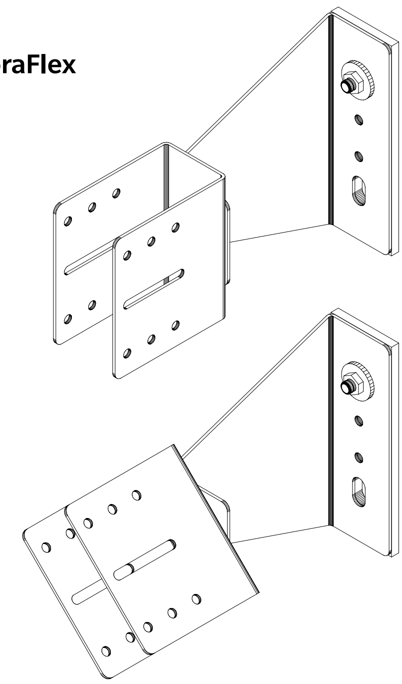
Back systems

Komproment's back systems consist of consoles and bearing rails mounted on the back wall – designed and dimensioned to carry the façade. The number and positioning of consoles is determined from a calculation of the statics, and drawings of principles and positions are supplied with the solution.
Wind shields which are compatible with the system can be used between the back system and the façade system, or alternatively products in strips, provided they are permissible for the building. Komproment can also facilitate the start-up of mounting on a project with a thorough review of the drawings, materials and principles.

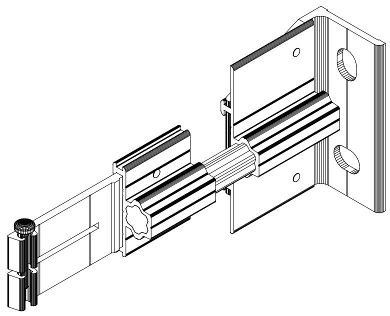
ArboraFix



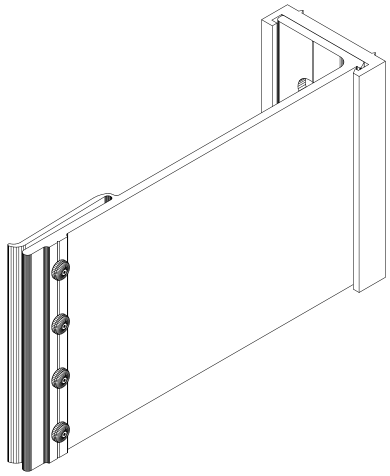
ArboraFlex



Terma

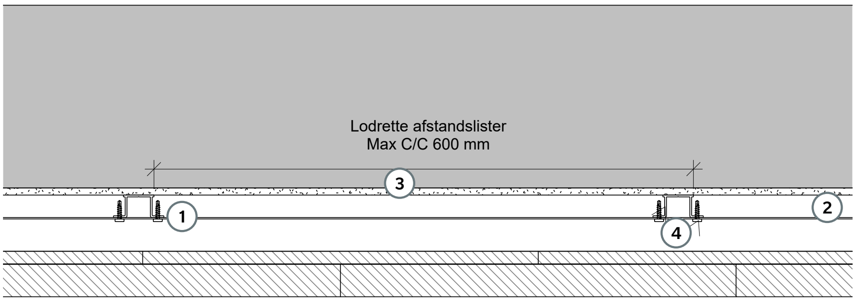


Versa



Distribution of spacers

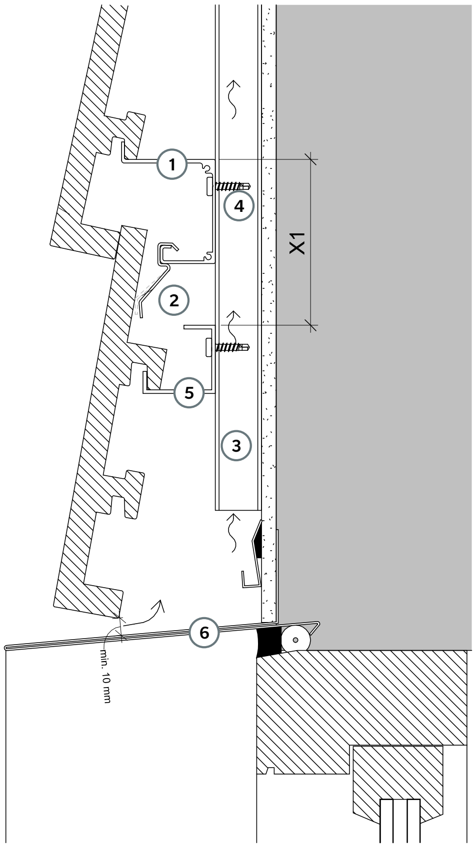
Aluminium spacers from Kompromont are 100 % non-organic, made of aluminium that can withstand sea water.
The spacers ensure ventilation and free passage behind the façade (for ventilation and water).
Spacers are mounted vertically on the façade, at regular intervals of max. C/C 600 mm.



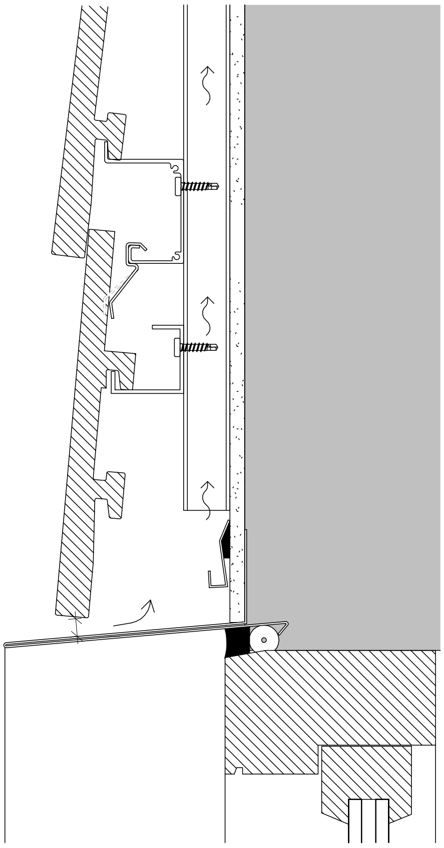
1.	Mounting screw with drill point stainless A2
2.	Horizontal aluminium batten
3.	Wind shield
4.	Vertical spacer, 25 mm in wood or aluminium

Finishing over window or door frame

TU profile



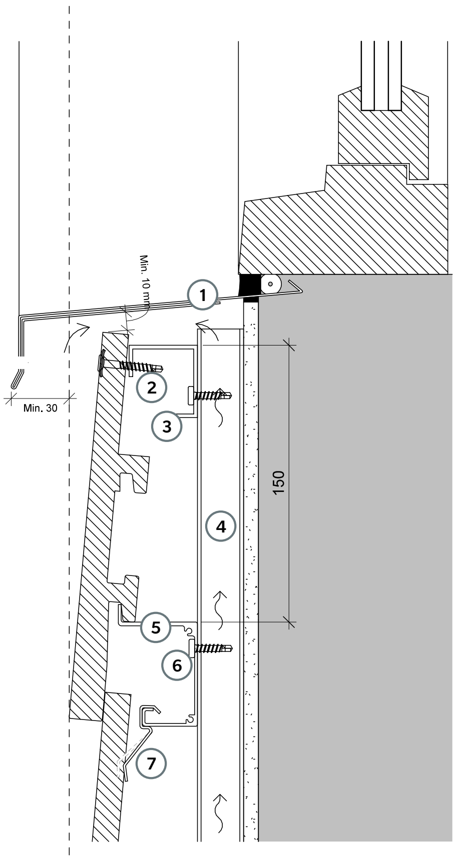
TL profile



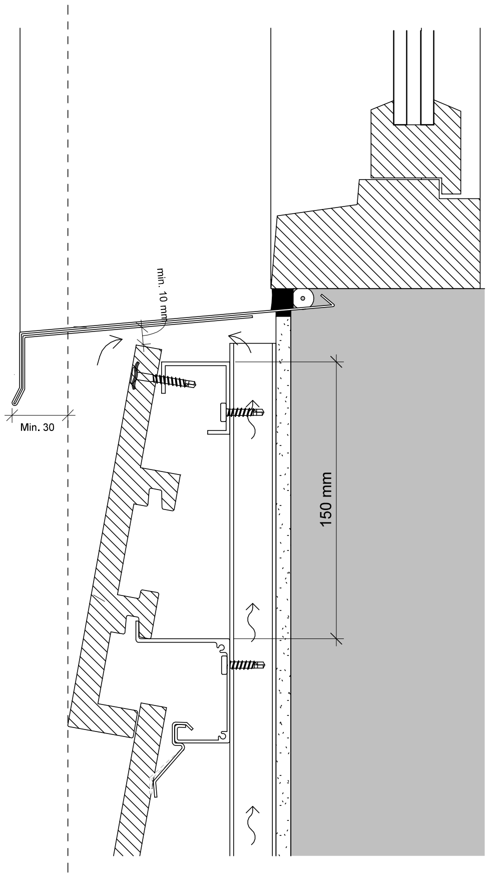
1.	Horizontal aluminium batten
2.	Mounting clip – 2 clips per tile Must not be "over bent" when fitted
3.	Vertical spacer 25 mm
4.	Special self-drilling screw in stainless steel - A2 (for aluminium spacers)
5.	Horizontal special batten in aluminium
6.	Aluminium flashing for windows and doors

Finishing under window frame

TL profile

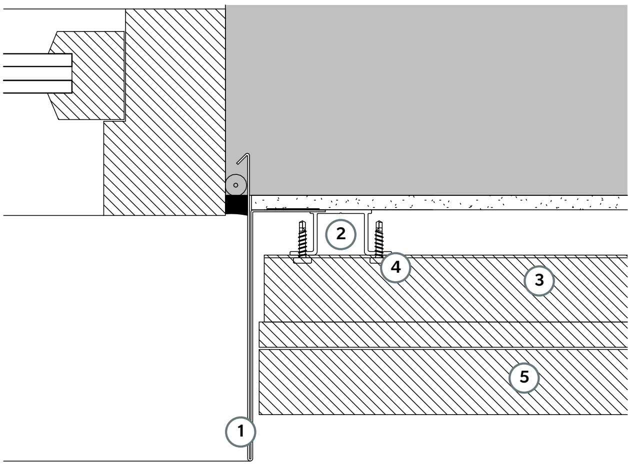


TU profile



1.	Window flashing
2.	Special self-drilling screw in stainless steel Drill one ø6 mm hole per tile for the screws.
3.	Horizontal special batten in aluminium
4.	Vertical spacer 25 mm in wood or aluminium
5.	Horizontal batten in aluminium
6.	Special self-drilling screw in stainless steel (for aluminium spacers)
7.	Mounting clip – 2 clips per tile. Must not be “over bent” when fitted

Finishing for window or door frame



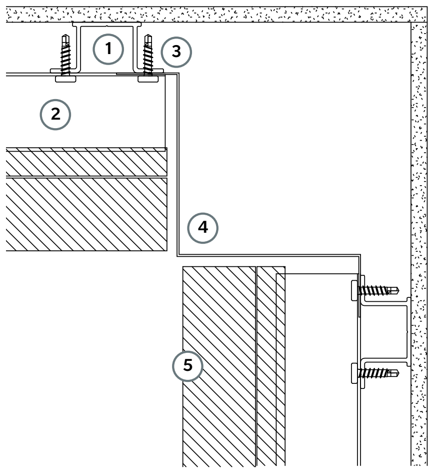
1.	Flashings
2.	Vertical spacer, 25 mm in wood or aluminium
3.	Horizontal aluminium batten
4.	Special self-drilling screw in stainless steel - A2 (for aluminium spacers)
5.	Cladding tile

Corner solutions

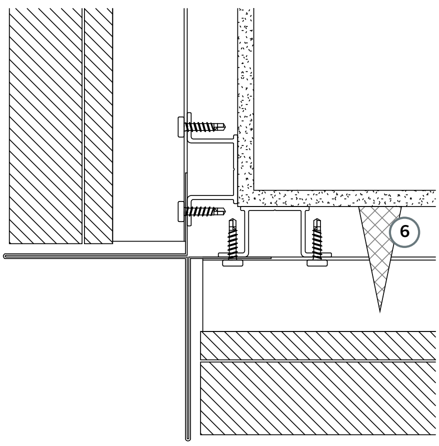
Principles for internal and external corners horizontal cross section

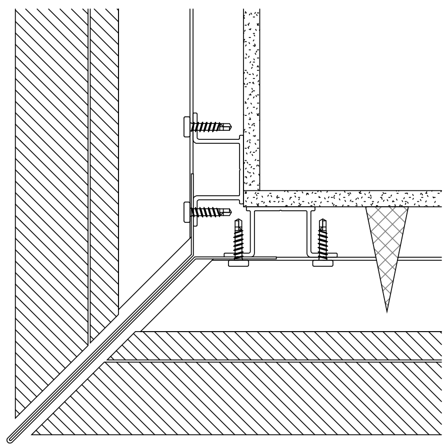
1.	Vertical spacer 25 mm in wood or aluminium
2.	Horizontal batten - aluminium
3.	Special self-drilling screw in stainless steel - A2 (for aluminium spacers)
4.	Corner profile
5.	Cladding tile
6.	Triangular foam wedge for the wind shield between façade sections

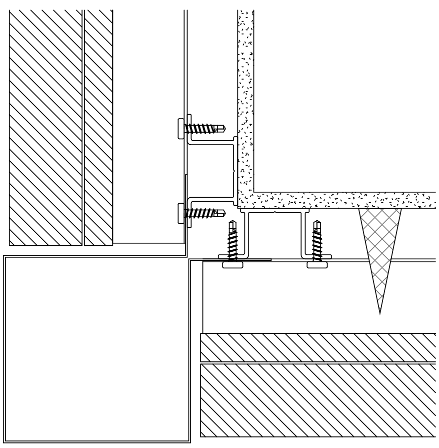
Internal corners – horizontal section

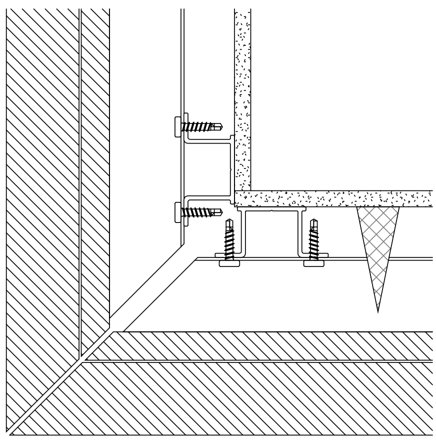


External corners – horizontal section









Mounting cladding tiles click-on

Façade

Set up the cladding tiles in the desired bonding pattern, mounting one row at a time. A hairline space must be allowed between tiles. Before mounting a new row, it is important that all tiles in the previous row are screwed down firmly, so that they are clamped against the underlying tiles. Always check that all tiles are sufficiently firmly screwed down.
Adjustment pieces against corners, doors or windows must not be smaller than 100 mm. Tiles must be mixed from at least 4-6 different pallets to ensure that the right play of colour is achieved. Allowance must be made for 2-3% breakage of the cladding tiles. These tiles must be discarded before mounting. All cladding tiles must be fastened with mounting clips, 2 clips per tile.
If there are visible screws, e.g. under a window, coloured screws can be used. Screw the tiles in place with torque, which must be determined at a trial set-up. Check the torque regularly to ensure that the tiles are set up with the correct torque.

Tolerances for the underlying surface evenness

Always check the underlying surface before mounting spacers and battens. Requirement for straightness of the construction behind, vertically and horizontally: tolerance +/- 3 mm, measured with a straight-edge over 2 m.

Attachment

Attachment to the bearing construction is not included in this guide, but must at all times be documented and dimensioned for the individual project according to current standard specifications and legislation. If you choose a complete façade system from Komproment, including cladding, mounting system and back system, the statics calculations will be supplied by Komproment.

Flashings

All flashings around windows, doors, gables, the base of the roof etc. in Komproment's drawings and instructions are shown purely as examples. All flashings must be reviewed and structured, and a final design prepared for the specific project by the architect in charge of project planning or consultant engineer.

Details

Drawings are not to scale, and are shown as principles. All constructions must be projected for the specific buildings.
Komproment cannot assume responsibility for project planning, or responsibility for planned details; this will at all times be the responsibility of the architect in charge of project planning and/or the consultant engineer.
Stated dimensions are for guidance, and must be checked on the building site.

Safety

Safety requirements when working with products from Komproment are the same as for all other building materials, subject to the rules of the Working Environment Act. Some recommendations:
Mechanical work on tiles (cutting, grinding, boring) will raise dust.

- Avoid breathing in the dust: use tools with dust filters.
- Avoid eye and skin contact: wear personal protection equipment.
- Avoid breathing in the dust: wear personal protection equipment.
- Ensure that there is sufficient ventilation at the workplace.

Storage and handling on the building site

Inspection on reception and storage

Products must be inspected immediately when they arrive at the building site. If no objection is made on the consignment note before it is signed, the products are accepted in the condition and quantity in which they arrive, in accordance with the attached packing slip.
Load pallets of cladding tiles carefully, and store them clear of soil, protecting them from dirt and the weather. Ensure that the pallets are ventilated when they are covered. The packaging from the factory serves as protection under transport, but not as weather protection. Pallets must be placed on level ground and must not be stacked.

Tools and cleaning

- Hammer
- Masonry drill ø5 mm
- Cutting pliers and hacksaw
- Wet saw for clinker bricks
- Battery-powered drill with torque

Safety at work

Use of safety goggles, helmets, gloves and hearing protection is mandatory, and this applies when cutting ceramic materials. For safety reasons it is advisable to wear a helmet, protective goggles and gloves for mounting work. Observe the necessary safety precautions when working at a height. Applicable rules must be observed.

Cleaning

While mounting cladding tiles, dust is raised by drilling, cutting and grinding, with additional dirt from the scaffolding and the area around the façade. The dirt consists of coarse, sand-like particles and fine dust particles, which also contain lime and salt compounds. If exposed to moisture, these deposits may cause permanent, visible discolouration, which affects the aesthetic aspect.

Recommendations for cleaning

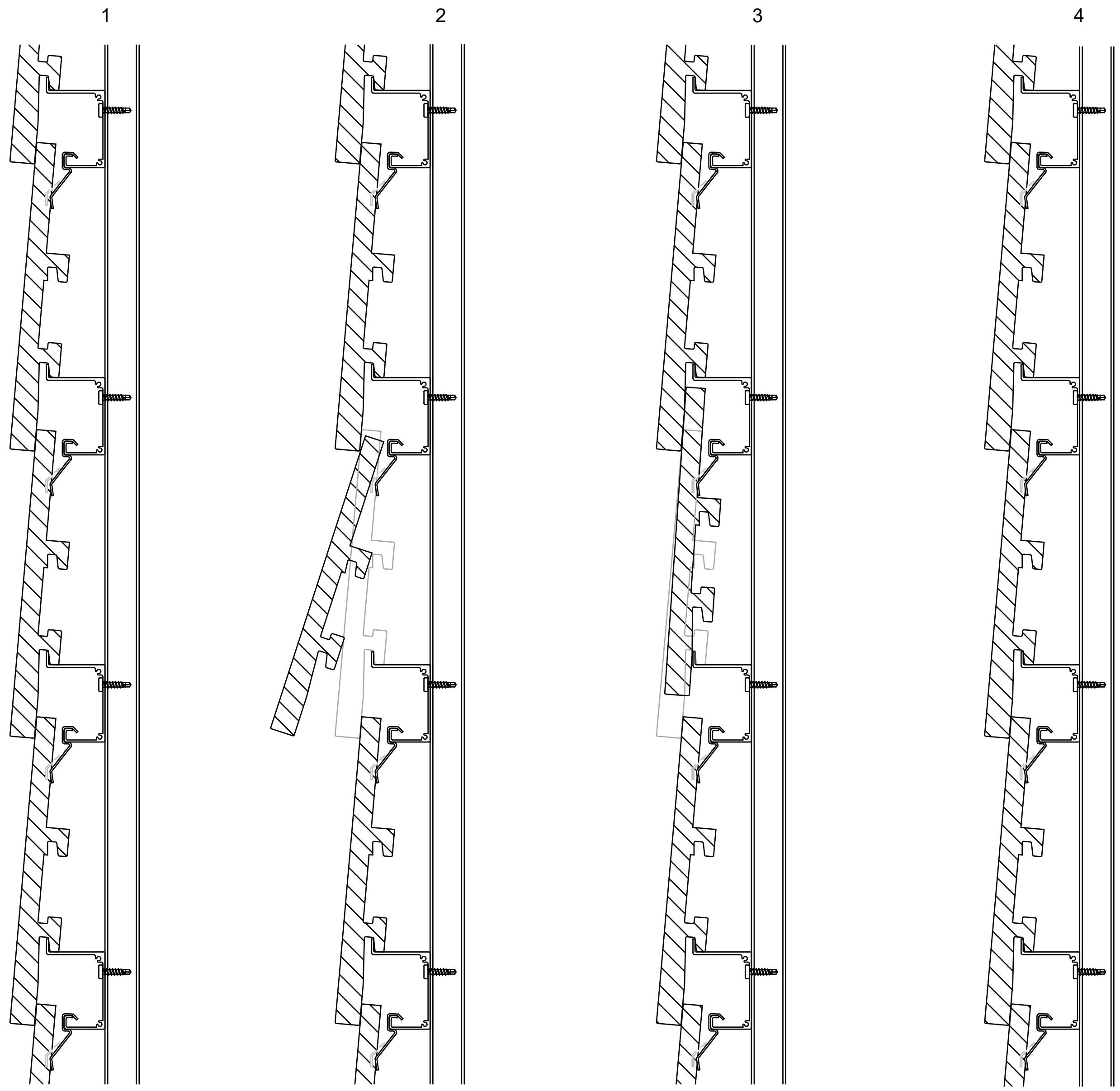
- Remove dust from drilling, cutting and grinding immediately after the task is completed. Use water for cleaning.
- Clean up with pressurised air or spray with water under pressure at the end of the day.
- Final cleaning is mandatory immediately before taking down the scaffolding.

Important: Never clean up in direct sunlight!

Replacement / Retrofitting

(When retrofitting, start at step 2)

1.	Remove the damaged screen tile completely.
2.	Push a new screen tile up under the overlapping tile.
3.	The replacement is now completed. Check that the tile is correctly in place. It must be firmly attached and precisely positioned.
4.	The replacement is now completed. Check that the tile is correctly in place. It must be firmly attached and precisely positioned.



Operation and maintenance

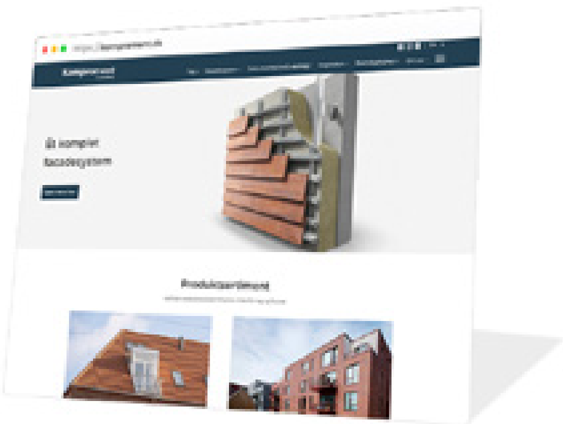
Normally, a correctly constructed tile façade from Komproment will require very little or no maintenance. Nevertheless, we recommend an inspection of the façade, as external forces can affect it. Find instructions for operation and maintenance at komproment.com.

A total solution for your façade

We provide expert guidance, technical advice, and a complete façade system, which comprises cladding, mounting system and subframe:

- Detailed drawings CAD drawings and textures
- Technical data sheets
- Documentation for planning and execution
- Material passport
- EPD
- ETA
- Draft specifications
- Drawings and details
- Price estimates
- Calculations of statics for the completed construction
- Calculations of statics for attachments
- Calculations of U values
- Preparation of mounting drawings and details for back systems
- List of contractors with trained Komproment installers
- Start-up meeting before mounting with the installer(s)

You can download all data here: komproment.com



With reservations for printing errors or any alterations to the products.
October 2024

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